

Safety Data Sheet

WAT B-2470

1. IDENTIFICATION

Product name	WAT B-2470
Description	Proprietary aqueous solution
Product class	Boiler
Supplier address	1919 Case Parkway North Twinsburg, OH 44087
Telephone numbers	
<u>Company Phone Number</u>	(800) 229-6801
<u>Emergency Telephone</u>	INFOTRAC 800-535-5053

2. HAZARDS IDENTIFICATION

Hazard classification	Skin Irritation, Category 2 Serious Eye Damage, Category 1 Germ Cell Mutagenicity, Category 2 Specific Organ Toxicity, Chronic Exposure, Category 1
Signal word	Danger
Hazard statements	Causes skin irritation. Causes serious eye damage. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.

Pictograms of related hazards



Precautionary statements

Prevention

- Wash skin thoroughly after handling.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not eat, drink, or smoke when using this product.

Response

- Get medical attention if you feel unwell.
- IF ON SKIN: Wash with soap and water.
- If skin irritation occurs: Get medical attention.
- Take off contaminated clothing and wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

IF exposed or concerned: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Diethylhydroxylamine (DEHA)	3710-84-7	10–20
Hydroquinone	123-31-9	1–10
Non-hazardous substances	Proprietary	>70

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.
Inhalation	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
Note to health care provider	No specific information; treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible.
Specific hazards	Combustion may produce toxic gases.
Hazardous combustion products	Carbon oxides, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.
Methods for clean-up	
<u>Small spills</u>	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.
<u>Large spills</u>	Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling.
Storage conditions	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
Suitable materials of construction	No information available
Unsuitable materials of construction	No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles
Skin protection	Chemical-resistant gloves and body-covering clothing
Respiratory protection	Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).
Engineering controls	Adequate ventilation, eye-wash station, and emergency shower
General hygiene considerations	Do not eat, drink, or smoke while handling this product.

Chemical Name	OSHA PEL	ACGIH TLV
Diethylhydroxylamine (DEHA)	None established	None established
Hydroquinone	2 mg/m ³	1 mg/m ³
Non-hazardous substances	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	8.0-10.0
Appearance	Clear colorless to brown liquid
Odor	Mild to no odor
Odor Threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling range	No information available

Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	0.950-1.100
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Polymerization will not occur.
Conditions to avoid	Extreme temperatures, incompatibilities, excessive air and light exposure
Incompatibilities	Strong bases, oxidizers
Hazardous decomposition products	No known non-thermal decomposition hazards.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

Diethylhydroxylamine (DEHA)

Parameter	Result
LDLo, Oral (rat)	1,600 mg/kg
LDLo, Dermal (rabbit)	2,000 mg/kg
LD50, Oral (rat)	2,190 mg/kg
LD50, Dermal (rabbit)	1,300 mg/kg

Hydroquinone

Parameter	Result
LD50, Oral (rat)	302 mg/kg
LDLo, Oral (human)	29 mg/kg
Percutaneous absorption rate (human)	0.522 µg/cm ² /hr
Mammalian Chromosome Aberration Test	Mutagenic (with metabolic activation)
Micronucleus test, Oral (mouse)	Weakly genotoxic
Micronucleus test, Intraperitoneal (mouse)	Genotoxic

Acute symptoms and effects

Eye	Eye irritation with or without pain, burning, itching, redness, and discharge.
Skin	Repeat and/or prolonged exposure to hydroquinone causes skin depigmentation and may lead to exogenous ochronosis; a condition characterized by dark blue skin discoloration.
Ingestion	Ingestion of hydroquinone may lead to exogenous ochronosis; a condition characterized by dark blue skin discoloration. Ingestion may also cause acute gastrointestinal distress with or without nausea, vomiting, abdominal pain, and diarrhea.
Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip.
Reproductive effects	No information available
Teratogenicity	No information available
Mutagenicity	Hydroquinone was found to have mutagenic effects in animal laboratory studies. Relevance to human mutagenicity is unknown.
Embryotoxicity	No information available
Sensitization to product	No information available
Synergistic products	No information available
Carcinogenicity	Hydroquinone has been evaluated by the IARC and categorized as "not classifiable as to carcinogenicity in humans" (group 3).
Chronic	Repeat exposure to hydroquinone induces skin discoloration and hypopigmentation.

12. ECOLOGICAL INFORMATION**Aquatic toxicity*****Diethylhydroxylamine (DEHA)***

Parameter	Result
48 hr EC50, <i>Daphnia magna</i>	8.2 mg/L

Hydroquinone

Parameter	Result
96 hr LC50, Fathead minnow	>0.4 mg/L
96 hr LC50, Zebra danio	0.17 mg/L

WAT B-2470

Parameter	Result
48 hr LC50, <i>Daphnia magna</i>	19.61 mg/L

Persistence	No information available
Bioaccumulative potential	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with federal, state, and local regulations.
-----------------	--

RCRA status Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT) Not regulated for domestic shipments of non-bulk quantities.

UN Number UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (contains hydroquinone)
Primary hazard class/division 9
Secondary hazard None
Packing group III
Label

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Skin Irritation, Category 2
 Serious Eye Damage, Category 1
 Germ Cell Mutagenicity, Category 2
 Specific Organ Toxicity, Chronic Exposure, Category 1

EPA Registration Number Not applicable

TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
Diethylhydroxylamine (DEHA)	None
Hydroquinone	100 lb
Non-hazardous substances	None
Product (Notify the EPA of spills exceeding this amount.)	1,000 lb

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
Hydroquinone	123-31-9	100 lb	500/10,000 lb

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
Hydroquinone	123-31-9	1-10

California Prop 65

Chemical Name	CAS Number	Hazard
None		

16. OTHER INFORMATION

HMIS Ratings	Health—2; Flammability—0; Reactivity—0
NFPA Ratings	Health—2; Flammability—0; Reactivity—0
HMIS/NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date	3/24/2015
Revision Date	1/8/2024
Version	3

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.